

SEQUENCE LISTING

<110> Ge, Ruowen

Kini, R. Manjunatha

<120> Small Peptides Having Potent Anti-Angiogenic Activity

<130> 1781-170P

<140> NEW

<141> 1999-08-23

<150> 60/099,313

<151> 1999-09-04

<160> 50

<170> PatentIn Ver. 2.0

<210> 1

<211> 10

<212> PRT

<213> mammalian

<220>

<223> Angio-1

<400> 1

Ser Pro His Arg Pro Arg Phe Ser Pro Ala

1

5

10

<210> 2

<211> 10

<212> PRT

<213> mammalian

<220>

<223> Angio-2

<400> 2

Ser Pro His Ala His Gly Tyr Ile Pro Ser

1

5

10

<210> 3

<211> 10

<212> PRT

<213> mammalian

<220>

<223> Angio-3

<400> 3

Thr Pro His Thr His Asn Arg Thr Pro Glu
1 5 10

<210> 4

<211> 10

<212> PRT

<213> mammalian

<400> 4

Thr Pro Ala Thr His Asn Arg Thr Pro Glu
1 5 10

<210> 5

<211> 10

<212> PRT

<213> mammalian

<400> 5

Thr Pro His Ala His Asn Arg Thr Pro Glu
1 5 10

<210> 6

<211> 10

<212> PRT

<213> mammalian

<400> 6

Thr Pro His Thr Ala Asn Arg Thr Pro Glu
1 5 10

<210> 7

<211> 10

<212> PRT

<213> mammalian

<400> 7

Thr Pro His Thr His Ala Arg Thr Pro Glu
1 5 10

<210> 8
<211> 10
<212> PRT
<213> mammalian

<400> 8
Thr Pro His Thr His Asn Ala Thr Pro Glu
1 5 10

<210> 9
<211> 10
<212> PRT
<213> mammalian

<400> 9
Thr Pro His Thr His Asn Arg Ala Pro Glu
1 5 10

<210> 10
<211> 10
<212> PRT
<213> mammalian

<400> 10
Asn Thr Thr Glu Thr Pro His Pro His Arg
1 5 10

<210> 11
<211> 10
<212> PRT
<213> mammalian

<220>
<223> Angio-4

<400> 11
Thr Pro His Arg His Gln Lys Thr Pro Glu
1 5 10

<210> 12
<211> 11
<212> PRT

<213> mammalian

<220>

<223> Angio-5

<400> 12

Glu Pro His Arg His Ser Ile Phe Thr Pro Glu

1 5 10

<210> 13

<211> 10

<212> PRT

<213> mammalian

<400> 13

Thr Pro His Arg His Asn Arg Thr Pro Glu

1 5 10

<210> 14

<211> 10

<212> PRT

<213> mammalian

<400> 14

Thr Pro His Lys His Asn Arg Thr Pro Glu

1 5 10

<210> 15

<211> 10

<212> PRT

<213> mammalian

<400> 15

Ser Pro His Lys His Asn Arg Thr Pro Glu

1 5 10

<210> 16

<211> 10

<212> PRT

<213> mammalian

<400> 16

Phe Pro His Val Pro Asn Tyr Ser Pro Ser

1 5 10

<210> 17
<211> 10
<212> PRT
<213> mammalian

<400> 17
Ser Pro His Arg Pro Thr Phe Ser Pro Ala
1 5 10

<210> 18
<211> 10
<212> PRT
<213> mammalian

<400> 18
Ser Pro His Ile Pro Lys Tyr Ser Pro Glu
1 5 10

<210> 19
<211> 10
<212> PRT
<213> mammalian

<400> 19
Ser Pro His Val Pro Lys Phe Ser Pro Glu
1 5 10

<210> 20
<211> 10
<212> PRT
<213> mammalian

<400> 20
Ser Pro His Ala His Gly Tyr Ile Pro Ala
1 5 10

<210> 21
<211> 10
<212> PRT
<213> mammalian

<400> 21

Ser Pro His Ala His Gly Tyr Leu Pro Ser
1 5 10

<210> 22
<211> 10
<212> PRT
<213> mammalian

<400> 22
Phe Pro His Arg His Ser Lys Thr Pro Glu
1 5 10

<210> 23
<211> 10
<212> PRT
<213> mammalian

<400> 23
Thr Pro His Trp His Glu Lys Thr Pro Glu
1 5 10

<210> 24
<211> 10
<212> PRT
<213> mammalian

<400> 24
Thr Pro His Arg His Glu Lys Thr Pro Gly
1 5 10

<210> 25
<211> 10
<212> PRT
<213> mammalian

<400> 25
Thr Pro His Arg His Leu Lys Thr Pro Glu
1 5 10

<210> 26
<211> 11
<212> PRT
<213> mammalian

<400> 26

Glu Pro His Arg His Ser Ile Phe Thr Pro Gln
1 5 10

<210> 27

<211> 11

<212> PRT

<213> mammalian

<400> 27

Glu Pro His Ser His Arg Ile Phe Thr Pro Glu
1 5 10

<210> 28

<211> 11

<212> PRT

<213> mammalian

<400> 28

Glu Pro His Gln His Ser Ile Phe Thr Pro Glu
1 5 10

<210> 29

<211> 11

<212> PRT

<213> mammalian

<220>

<223> Endo-1

<400> 29

Ser Pro His Asn Ser Tyr Ile Val Leu Pro Ile
1 5 10

<210> 30

<211> 13

<212> PRT

<213> mammalian

<220>

<223> Endo-2

<400> 30

Gln Pro Val Leu His Leu Val Ala Leu Asn Thr Pro Leu
1 5 10

<210> 31
<211> 14
<212> PRT
<213> mammalian

<220>
<223> Endo-3

<400> 31
Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser Pro Ser
1 5 10

<210> 32
<211> 16
<212> PRT
<213> mammalian

<220>
<223> Endo-4

<400> 32
His Pro Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser
1 5 10 15

<210> 33
<211> 12
<212> PRT
<213> mammalian

<220>
<223> mVEGF

<400> 33
Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser
1 5 10

<210> 34
<211> 12
<212> PRT
<213> mammalian

<220>

<223> smVEGF

<400> 34

Tyr Ile Glu Glu Tyr Ser Pro Asp Ile Pro Phe Lys
1 5 10

<210> 35

<211> 12

<212> PRT

<213> mammalian

<220>

<223> fVEGF

<400> 35

Tyr Pro Asp Glu Ile Glu His Thr Tyr Ile Pro Ser
1 5 10

<210> 36

<211> 12

<212> PRT

<213> mammalian

<220>

<223> hFLT1

<400> 36

Arg Pro Phe Val Glu Met Tyr Ser Glu Ile Pro Glu
1 5 10

<210> 37

<211> 13

<212> PRT

<213> mammalian

<220>

<223> hFLT-2T

<400> 37

Ser Thr Asn Ile Thr Val Thr Leu Lys Lys Phe Pro Leu
1 5 10

<210> 38

<211> 13
<212> PRT
<213> mammalian

<220>
<223> hFLT2

<400> 38
Ser Pro Asn Ile Thr Val Thr Leu Lys Lys Phe Pro Leu
1 5 10

<210> 39
<211> 13
<212> PRT
<213> mammalian

<220>
<223> shFLT2

<400> 39
Leu Val Pro Leu Pro Lys Ile Lys Asn Ser Thr Phe Thr
1 5 10

<210> 40
<211> 11
<212> PRT
<213> mammalian

<220>
<223> hFLT2-11

<400> 40
Asn Ile Thr Val Thr Leu Lys Lys Phe Pro Leu
1 5 10

<210> 41
<211> 9
<212> PRT
<213> mammalian

<220>
<223> hFLT2-9

<400> 41
Thr Val Thr Leu Lys Lys Phe Pro Leu

1

5

<210> 42

<211> 7

<212> PRT

<213> mammalian

<220>

<223> hFLT2-7

<400> 42

Thr Leu Lys Lys Phe Pro Leu

1

5

<210> 43

<211> 5

<212> PRT

<213> mammalian

<220>

<223> hFLT2-5

<400> 43

Lys Lys Phe Pro Leu

1

5

<210> 44

<211> 13

<212> PRT

<213> mammalian

<220>

<223> mFLT2

<400> 44

Ser Pro Asn Val Thr Val Thr Leu Lys Lys Phe Pro Phe

1

5

10

<210> 45

<211> 16

<212> PRT

<213> mammalian

<220>

<223> hFLT3

<400> 45

Arg Pro Val Lys Leu Leu Arg Gly His Thr Leu Val Leu Asn Pro Thr
1 5 10 15

<210> 46

<211> 16

<212> PRT

<213> mammalian

<220>

<223> mFLT3

<400> 46

Ser Pro Val Arg Leu Leu His Gly Gln Thr Leu Val Leu Asn Pro Thr
1 5 10 15

<210> 47

<211> 13

<212> PRT

<213> mammalian

<220>

<223> h/mFLK1

<400> 47

Ser Pro Phe Ile Ala Ser Val Ser Asp Gln His Pro Ile
1 5 10

<210> 48

<211> 14

<212> PRT

<213> mammalian

<220>

<223> h/mFLK2

<400> 48

Ile Pro Asn Leu Asn Val Ser Leu Pro Ala Arg Tyr Pro Glu
1 5 10

<210> 49

<211> 19

<212> PRT
<213> mammalian

<220>
<223> hFLK3

<400> 49
Ser Pro Ser His Gly Ile Glu Leu Ser Val Gly Glu Lys Leu Val Leu
1 5 10 15

Asn Pro Thr

<210> 50
<211> 19
<212> PRT
<213> mammalian

<220>
<223> mFLK3

<400> 50
Ser Pro Pro His Glu Ile Glu Leu Ser Ala Gly Glu Lys Leu Val Leu
1 5 10 15

Asn Pro Thr